Fractions

Q1. Fill in the blanks.

- 1. An improper fraction of $8\frac{4}{9}$ is _____
- 2. $\frac{7}{21} + -- = \frac{12}{21}$
- 3. The equivalent fraction of $\frac{3}{5}$ having numerator 24 is _____
- 4. Fractions with same denominators are called _____
- 5. Which is greater $\frac{3}{8} or \frac{3}{5}$
- 6. What fraction of a day is 6 hours?
- 7. Is $\frac{5}{9}$ equals to $\frac{4}{5}$?
- 8. A fraction is said to be in the simplest (or lowest) form if its numerator and denominator have no common factor except ______.
- 9. In an improper fraction, the numerator is _____ than the denominator.
- 10. The simplest form of $\frac{18}{36}$ is _____

Q2. Compare the following. [<, >, =]

- 1. a) $\frac{8}{15} \square \frac{4}{15}$
 - b) $\frac{4}{7}$ and $\frac{3}{8}$
 - c) $\frac{5}{8}$ and $\frac{5}{7}$
- 2. Show $\frac{3}{5}$, $\frac{5}{5}$ and $\frac{7}{5}$ on a number line.

Q3. Express as mixed fractions.

- a. $\frac{17}{7}$
- b. $\frac{38}{5}$

c.
$$\frac{19}{6}$$

- Q4. Express as improper fractions.
 - a. $3\frac{2}{8}$
 - b. $5\frac{7}{8}$
 - c. $4\frac{1}{3}$
- Q5. Find the equivalent fraction form.

 - b. $\frac{32}{48}$
 - c. $\frac{21}{24}$
- Stoday.com Q7. Find the equivalent fraction of $\frac{7}{15}$ with numerator 35?
- Q8. Find the equivalent fraction of $\frac{45}{54}$ with numerator 5?
- Q9. Write the natural numbers between 50 to 65 what fraction of them are prime numbers?
- Q10. Solve.

a.
$$\frac{5}{12} - \frac{3}{4}$$

b.
$$2\frac{1}{5} + 4\frac{3}{4}$$

c.
$$4\frac{4}{5} - 3\frac{7}{9}$$

d.
$$\frac{1}{4} + \frac{1}{5} + \frac{1}{6}$$

- e. $1 \frac{3}{r}$
- f. $4 \frac{1}{2}$
- Q11. Raju had $\frac{5}{9}$ of a cake. He gave $\frac{2}{9}$ out of that to his sister. How much is left?
- Q12. Meena bought $2\frac{1}{4}$ kg of vegetables and Reena bought $3\frac{1}{2}$ kg of vegetables. Find the MMM. Studies total weight of vegetables bought by both of them.

Q11.Find the sum.

a)
$$4\frac{1}{2} + \frac{1}{10} + 3\frac{1}{5}$$

b)
$$2\frac{1}{8} + 1\frac{1}{16} + \frac{3}{4}$$

c)
$$8\frac{4}{9} + 5\frac{1}{3}$$

Q12.Subtract.

a)
$$4\frac{5}{8} - 3\frac{3}{16}$$

b)
$$3\frac{1}{15} - 2\frac{1}{5}$$

c) subtract
$$\frac{3}{4}$$
 from $3\frac{1}{7}$

d)Subtract
$$\frac{4}{9}$$
 from 6.

Fractions

- I. Important Points.
- 1. Fraction whose Numerators are less than denominators are called Proper fractions.
- 2. Fractions whose Numerators are greater than Denominators an called Improper fractions.
- 3. If the Numerators of a fraction is less than Denominator the fraction is less than 1.
- 4. If Numerator of a fraction is greater than denominator then the fraction is more than 1.
- 5. If Numerator is equal to the Denominator than the fraction is equal to 1.
- 6. A Fraction with numerate 1 is called UNIT FRACTION.
- 7. The Fraction is said to be in the lowest term or in simplest form if the H.C.F. of its numerator and the denominator is 1.
- 8. A group of fraction with the same denominator are called <u>LIKE FRACTIONS</u>.
- 9. A group of fraction with the different denominators are called <u>UNLIKE FRACTIONS.</u>
- 10. Different fractions represents the same part are called <u>EQUIVALENT FRACTIONS</u>.
- 11. Proper fractions are always less than 1.
- 12. Improper fractions are greater than or equal to 1.
- 13. Of the two fractions with same numerator, the fraction with greater denominator is smaller.
- 14. Of the two fractions with same denominator the fraction with greater numerator is greater.
- II. Solve the following

$$(i) \underline{2} = \underline{8} (ii)$$

7

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$$(iii) \quad \underline{3} \quad = \quad \underline{8} \quad (iv)$$

20

5

60

$$(v) \qquad \underline{18} \qquad = \qquad \boxed{\qquad} (vi)$$

$$24 \qquad \qquad 4$$

$$(vii) \quad \underline{15} \quad = \quad \boxed{\qquad} (viii)$$

$$35 \quad 7$$

$$\begin{array}{ccc}
(ix) & \underline{8} & = & \boxed{} \\
64 & 8
\end{array}$$

III. Reduce the following fractions in to simplest form.

- (i) <u>48</u>
- (ii) <u>150</u>
- (iii) <u>84</u>

60

60

98

- (iv) <u>12</u>
- (v) <u>7</u>
- (vi) <u>36</u>

- 52
- 28

24

- (viii) <u>63</u>
- (ix) <u>90</u>
- (x) <u>72</u>

128

- 189
- 104
- 120

IV. Find an equivalent fraction of

having

5

- (a) Denominator 20
- (b) Numerator 36
- (c) Denominator 75
- (d) Numerator 45
- (e) Denominators 125

indies to day. V. Find an equivalent fraction of

16 having

144

- (a) numerator
- (b) denominator
- (c) numerator
- (d) numerator

VI. Change the following into improper fraction

- (ii)

- 5
- 5
- 7

(iv)

- 18

7

23

VII. Change the following into mixed number

- (i) 8
- (ii) <u>16</u>
- (iii) 54
- (iv) 209_

- 3
- 3
- 7
- 14

- (v) <u>67</u>

- (vi) <u>98</u> (vii) <u>145</u> (viii) <u>37</u>
- 13
- 23
- 12

21_

VIII. Which of the following pair of fraction are equivalent?

- (i) <u>6</u> and

- 13
- 65

30

72

- (ii) <u>16</u>

- 20
- 44 76

- 40
- 11 _ 55 (vi)

- 15
- 75

17 85

IX. Fill in the blanks by putting \langle , \rangle , a =

11

- (i) <u>7</u>
- (ii)

19

- 11
- 19

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X. Arrange the following in Ascending and descending order.

9

9

17

$$(v) \ \underline{17} \quad , \quad \underline{17} \quad , \quad \underline{17} \quad , \quad \underline{17} \quad , \quad \underline{17}$$

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XI.

Solve

5 10

4 6 12

(iii)
$$3 + 1$$
 (iv) $7 + 2$
10 15 15 5

$$(v) \ \underline{5} + \underline{7} + \underline{1} \quad (vi) \ \underline{9} \quad \underline{5}$$
 $6 \quad 12 \quad 9 \quad 16 \quad 12$

(ix)
$$3 - 4$$
 (x) $5 - 7$ (xi) $31 - 5$

5 6 12 15 6

XII. Find the difference between.

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